



Product Overview

The AX-OC range of occupancy sensors are passive infra-red sensors for monitoring occupation through body heat. Detection of occupation will activate the internal relay. The 230Vac Versions have mains rated volt free contacts, whereas the low voltage units can be used to switch a BMS system.

Features

- Flush, Surface and Wall mount options
- Volt free contact output.
- Compatible with many BMS products
- Flush unit supplied with 3 metres of cable

Product Specifications

Sensor type:	Passive Infra-Red Detector
Field of View:	Flush & Surface 360 deg Wall 110 deg
Coverage:	Flush & Surface 7 metres diam max. (at 2.7m height) Wall upto 12 metres.
Power Supply:	OC-24-x 12 or 24Vac/dc +/- 15% OC-230-x 230Vac 50/60hZ +/-15%
Time Delay:	10sec to 30Min
Relay:	SPDT
Contact Rating:	OC-24-x 1A resistive @50Vac/dc OC-230-x 6 A @240Vac resistive (3A ind) or 8 H.F. Ballasts
Electrical Connections:	+V, 0V, NC, Relay common, NO
Ambient Temp. Range:	0 to +50°C
Materials:	Flame retardant ABS, polypropylene
Conformity:	CE marked, EMC, LVD.
Country of Origin:	United Kingdom

Order Codes

AX-OC-24-VFC-F	-	Flush Mounted Occupancy sensor	24Vac/dc
AX-OC-24-VFC-S	-	Surface Mounted Occupancy sensor	24Vac/dc
AX-OC-24-VFC-W	-	Wall Mounted Occupancy sensor	24Vac/dc
AX-OC-230-VFC-F	-	Flush Mounted Occupancy sensor	230Vac
AX-OC-230-VFC-S	-	Surface Mounted Occupancy sensor	230Vac
AX-OC-230-VFC-W	-	Wall Mounted Occupancy sensor	230Vac

AX-OC-xx-VFC

Occupancy Sensors Volt free contact output



Installation

Siting:

The AX-OC should be sited so that the detection pattern (shown below) captures the normal occupancy positions inside the room. You should also follow the following guidelines.

- Avoid direct sunlight entering the sensor
- Do not sight within 1 metre of any lighting
- Do not position sensor within 1 metre of ventilation or forced air heating.
- Do not position sensor on a vibrating surface

Flush Mounting

The AX-OC-F should be installed in a ceiling tile through a 41mm hole, using the plastic clips supplied.. Ensure the tile is sufficiently strong to take the weight of the sensor and that there is sufficient clearance in the ceiling void.

Surface Mounting

The AX-OC-S has fixing lugs to allow mounting to metal boxes or BESA boxes and has side knockouts for cable entry. also has a bracket for ceiling or wall mounting where an angle is required.

Wall Mounting

The AX-OC-W has a fixing bracket to enable it to be mounted onto the wall, or alternatively you can mount the unit directly to the wall using the screw holes inside the back cover.

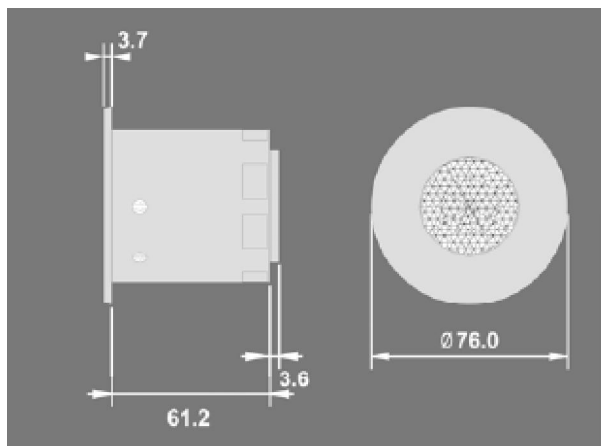
Configuration

Setting Time Delay

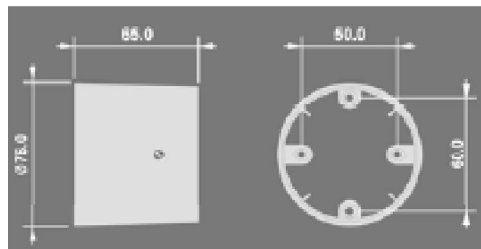
The occupancy timing is selectable via the rotary timing switch

Dimensions

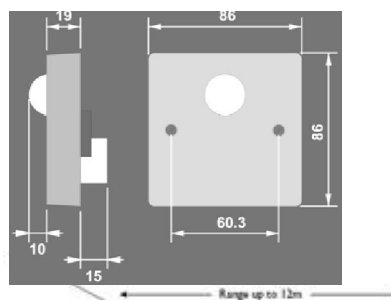
Flush Mount



Surface Mount

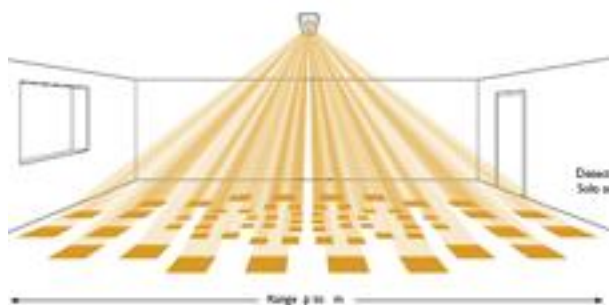


Wall Mount

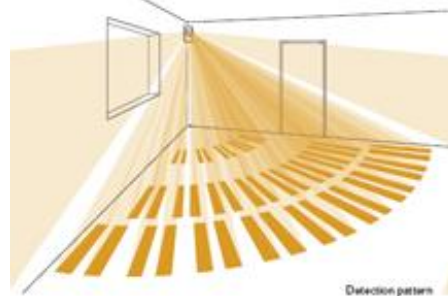


Detector Pattern

Flush & Surface Mount



Wall Mount



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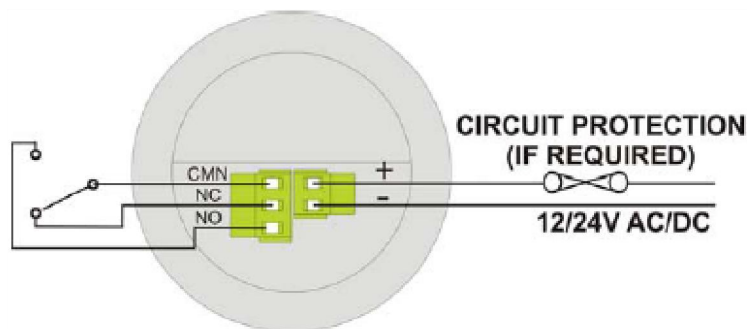
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AX-OC-xx-VFC

Occupancy Sensors Volt free contact output



Connections



Installation and Timing Control

- 1/ Connect wiring to terminal block as indicated
- 2/ Adjust time rotary switch to required time delay
- 3/ Fix unit in position
- 4/ Power up the unit
- 5/ Wait 10 mins for the unit to stabilise

Recommended delays:

Office low traffic	20 minutes
Office high traffic	10 minutes
Classroom	10 minutes
Corridor	10 minutes

Sensitivity

The system should function normally when installed as directed. In exceptional circumstances where more sensitivity is essential Switch 1 can be put in the ON position. Note this may make the system susceptible to false triggering caused by, for example, extreme air movement.

Fault Finding

- | | |
|--|---|
| 1/ Relay will not close | Check power is on, if LED's flash check photocell setting |
| 2/ Relay goes on and off every 10 seconds | Time delay is in Test Mode |
| 3/ Relay goes off when i am working but comes on when i move | Re-position sensor or increase time delay or change sensitivity setting |
| 4/ Relay goes on and off every 30 seconds | Adjust photocell |
| 5/ For IR detection only | ensure RV1 and RV2 are kept fully clockwise |
| 6/ The yellow/green LED's flash | ensure RV1 and RV2 are kept fully clockwise |

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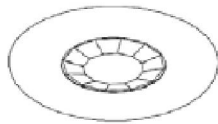
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AX-OC-xx-VFC

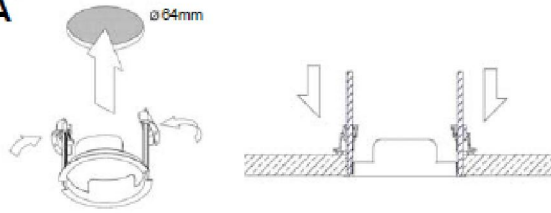
Occupancy Sensors Volt free contact output



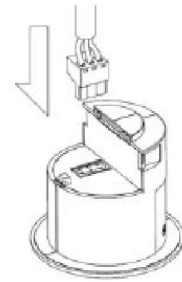
FLUSH FIXING



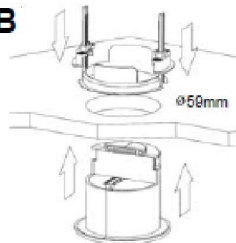
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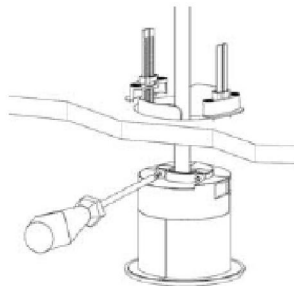
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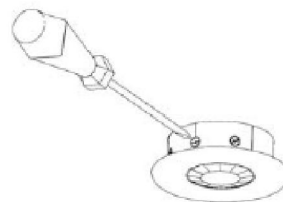
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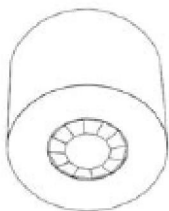
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4

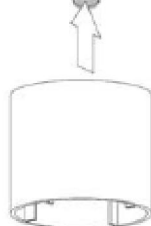


SURFACE FIXING

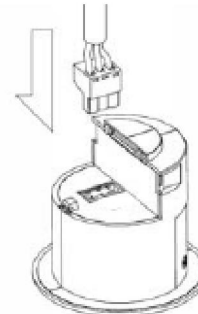


1

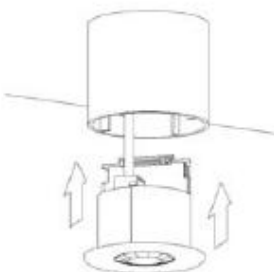
50mm or 60mm fixing centres



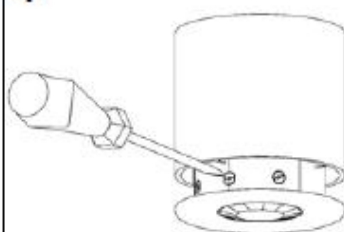
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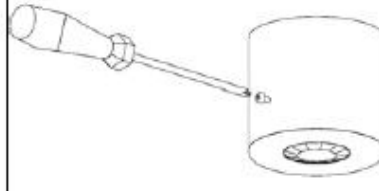
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4



5



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